

INTRODUCTION TO PROGRAMMING

1	Course Title:	INTRODUCTION TO PROGRAMMING
2	Course Code:	EKO3311
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Dr. ESMA BİRİŞÇİ
15	Course Lecturers:	Dr. Öğr. Üyesi Esma Birişçi
16	Contact information of the Course Coordinator:	esmabirisci@uludag.edu.tr Telefon:0224 2941016 Bursa Uludağ Üniversitesi İİBF A blok
17	Website:	
18	Objective of the Course:	To provide students with the basic skills of programming with the Python Programming language. This course is designed for students with little or no programming. It aims to introduce students to the role that programming can play in solutions. By developing their skills in writing small programs, they are allowed to achieve useful goals.
19	Contribution of the Course to Professional Development:	Those who successfully complete this training can work in the field of programming by improving themselves.
20	Learning Outcomes:	
	1	Designs the program flow before coding.
	2	Creates the appropriate solution algorithm using flow structures and codes it with the Python programming language.
	3	Uses the appropriate control statements for the problem.
	4	Develops the ability to analyze and interpret computer programming code.
	5	Analyzes, designs and code problems with the Python programming language from an object oriented perspective.
	6	To be able to develop a whole application using object oriented programming concepts.
	7	Monitors a written program and finds errors
	8	
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	<ul style="list-style-type: none">• Programming Development 1- Software development and algorithm structure- Flow Charts			
2	<ul style="list-style-type: none">• Programming Development 2- Introduction to Python Programming- Writing Simple Python code: "Hello world"			
3	<ul style="list-style-type: none">• Values and Variables- Integer and String Values- Identifiers- User login- String formatting			
4	<ul style="list-style-type: none">• Expressions and Arithmetic- Expressions-Arithmetic Examples-Comments-Errors			
5	<ul style="list-style-type: none">• Conditional Expressions- Boolean expressions- If / Else statements- Other Conditional expressions.			
6	<ul style="list-style-type: none">• Iterations- Finite and Infinite Loops- While expressions			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical	<ul style="list-style-type: none">• Functions and modules- Fixed functions	14	3.00	42.00
Practicals/Labs		0	0.00	0.00
Self study	<ul style="list-style-type: none">• Using Functions 2- Special functions	0	0.00	0.00
Homeworks		1	13.00	13.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm Exams	<ul style="list-style-type: none">• Function basics- Parameter transition	1	50.00	50.00
Others		0	0.00	0.00
Final Exams	<ul style="list-style-type: none">• Writing a Function 2- Special functions and standard functions	1	50.00	50.00
Total Work Load				155.00
Total work load/ 30 hr				5.17
ECTS Credit of the Course				5.00
	<ul style="list-style-type: none">- Recursive function			
12	<ul style="list-style-type: none">• Lists- Using List- List creation- List transition			
13	<ul style="list-style-type: none">• Linear programing-Problem modeling-Modeled problem solving with simplex in python			

14	• Python Classes -Class object -Class variables and methods -Manage class files															
22	Textbooks, References and/or Other Materials:		Class notes John Zelle. 2010. Python Programming: An Introduction to Computer Science 2nd Edition. Franklin, Beedle & Associates Inc., USA. Richard L. Halterman 2016. Fundamentals of Python Programming. Southern Adventist University, USA.													
23	Assesment															
TERM LEARNING ACTIVITIES			NUMBE R	WEIGHT												
Midterm Exam			1	20.00												
Quiz			0	0.00												
Home work-project			1	20.00												
Final Exam			1	60.00												
Total			3	100.00												
Contribution of Term (Year) Learning Activities to Success Grade			40.00													
Contribution of Final Exam to Success Grade			60.00													
Total			100.00													
Measurement and Evaluation Techniques Used in the Course			Written and practice questions.													
24	ECTS / WORK LOAD TABLE															
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	5	5	4	5	3	5	4	5	4	4	4	5	4	4
ÖK2	4	5	3	4	5	5	5	4	4	4	4	5	5	4	4	4
ÖK3	4	5	5	4	5	4	5	3	5	3	4	4	5	4	4	4
ÖK4	4	4	5	4	4	5	5	3	4	4	5	4	4	4	5	5
ÖK5	4	4	5	5	3	4	4	5	5	4	4	4	4	5	4	5
ÖK6	5	5	5	4	4	5	5	5	4	4	4	5	5	4	4	5
ÖK7	5	3	4	4	4	5	5	4	5	4	5	4	4	5	5	5
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							